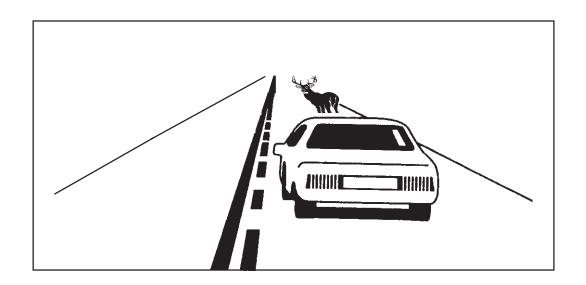
### MISSOURI STATE HIGHWAY PATROL



### ANALYSIS OF DEER INVOLVEMENT IN MISSOURI TRAFFIC CRASHES 2010

Prepared By
Public Information and Education Division
and the
Missouri Statistical Analysis Center

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### **INTRODUCTION**

In recent years, Missouri traffic safety authorities have expressed concern over (1) animal-vehicle crashes involving deer and (2) crashes caused by drivers avoiding deer on roadways. This is one in a series of reports designed to identify the seriousness and characteristics of deer-involved traffic crashes on Missouri's public roadways.

### 1. METHODOLOGY

Perviously, data from the National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS) were used to analyze deer-involved fatal crashes in the State. Due to the delay in obtaining FARS data, analysis of those fatal crashes where drivers made evasive maneuvers to avoid deer and no deer were struck but their evasive maneuvers contributed to the cause of the traffic crash will no longer be available in this report. That data may still be obtained from NHTSA.

Data from the Missouri Statewide Traffic Accident Records System (STARS) will be used for this report. Using STARS data, all 2010 Missouri traffic crashes where a deer was struck as part of the first harmful event were identified and analyzed (not just fatal crashes). However, this information source was limited in that it did not contain data identifying traffic crashes involving a deer avoidance maneuver where the animal was **not** struck. As a result, analysis could not be conducted on the deer avoidance maneuver problem associated with all Missouri traffic crashes.

### 2. DISCUSSION OF FINDINGS

The following is a discussion of findings obtained from an analysis of Missouri's 2010 traffic crashes related to deer involvement:

- In 2010, Missouri had 3,420 traffic crashes where deer-vehicle strikes occurred in the first harmful event. One deer strike occurred every 2.6 hours in the State.
- In 2010, two people were killed and 352 injured in these types of crashes. One per son was killed or injured every 24.8 hours.
- Of all deer strike traffic crashes, 29.8% occurred in an urban area and 70.2% occurred in a rural area of the State. Even though rural areas seem to be overrepresented, the seven highest ranking Missouri counties experiencing this problem are associated with major metropolitan areas. These include: St. Louis, Jackson, Platte, Jefferson, Clay, Franklin, and St. Charles. Deer strike traffic crashes in these counties account for 36.4% of the total.
- Four out of five, or 82.6%, of the 2010 deer strike crashes occurred on Statemaintained roadways. The greatest proportion occurred on State Numbered Routes (27.5%), followed by U.S. Highways (25.2%) and Interstates (14.4%). An additional 15.5% occurred on State Lettered Routes, 10.6% on City Streets, and 5.3% on County Roads.
- Calculations show over half, or 51.0%, of the 2010 deer strike crashes occurred from October through December, with the largest proportion in November (23.6%). When discussing this with the Missouri Department of Conservation, they suggested the major cause of increased roadway crossings by deer during this period is mating season. The peak occurs about mid-November. In addition, deer hunting season also may cause an increase in roadway crossings. The slight increase in deer-involved crashes noted in the spring months may be attributed to yearling fawns dispersing from their mothers just prior to the arrival of newborns.
- The majority of deer strike crashes occurred from 5:00 p.m. through 6:59 a.m. This time period accounted for 83.9% of the total.
- Of the drivers striking deer, 59.6% were male and 40.4% were female. The average age of the driver was 40.7 years.
- Of the drivers striking deer, 84.1% had a Missouri driver's license, 15.5% had an out-of-state driver's license, and 0.3% were unlicensed at the time of the crash.

### 3. FINDINGS

Th	e follow	ing is a	a series	of tables	and	figures	which	characterize	Missouri'	s 2010	deer	strike	traffic	crash
pro	oblem.													

## 2010 MISSOURI TRAFFIC CRASHES

### DEER STRIKE INVOLVEMENT

	FATAL		PERSONAL % INJURY	%	PROPERTY % DAMAGE	%	TOTAL	%	TOTAL ! KILLED	TOTAL NUMBER' KILLED INJURED	DRIVERS/I OF VE STRIKE KILLED	DRIVERS/PASSENGERS OF VEHICLES STRIKING DEER? KILLED INJURED
DEER INVOLVED	2	0.3	310	8.0	3,108	2.8	3,420	2.3	2	352	2	335
OTHER INVOLVEMENT 776	776	2.66	37,303	99.2	109,854	97.2	147,933	7.76	819	54,523	•	1
TOTAL	778	100.0	778 100.0 37,613	100.0	100.0 112,962	100.0	100.0 151,353	100.0	821 54,875	54,875	2	335

'This statistic indicates the total number of persons killed and injured in a crash where a deer was struck during the first harmful event in a crash.

<sup>2</sup>This statistic indicates the number of drivers and passengers of vehicles striking deer during the first harmful event in a crash who were killed and injured.

TABLE 1

## MISSOURI TRAFFIC SAFETY DEER INVOLVEMENT PROBLEM ANALYSIS CLOCK

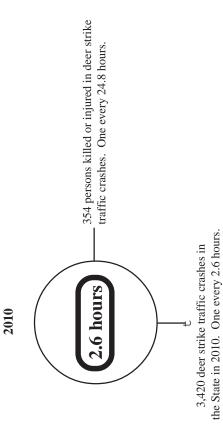


FIGURE 1

### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
	- INTINE							
URBAN	1	50.0	90	29.0	929	29.9	1,020	29.8
RURAL	1	50.0	220	71.0	2,179	70.1	2,400	70.2
TOTAL	2	100.0	310	100.0	3,108	100.0	3,420	100.0

TABLE 2

### 2010 MISSOURI DEER CRASHES

### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	0/0	TOTAL	%
STRAIGHT	2	100.0	269	87.6	2,390	87.4	2,661	87.4
CURVE	0	0.0	38	12.4	345	12.6	383	12.6
UNKNOWN	0	-	3	-	373	-	376	-
TOTAL	2	100.0	310	100.0	3,108	100.0	3,420	100.0

TABLE 3

### 2010 MISSOURI DEER CRASHES

### ROAD INCLINE BY CRASH SEVERITY

	FATAL	0/0	PERSONAL INJURY	%	PROPERTY DAMAGE	0/0	TOTAL	%
LEVEL	2	100.0	1,681	59.9	1,726	63.8	1,909	63.4
HILL	0	0.0	113	37.4	907	33.5	1,020	33.9
CREST	0	0.0	8	2.7	72	2.7	80	2.7
UNKNOWN	0	-	8	-	403	-	411	-
TOTAL	2	100.0	310	100.0	3,108	100.0	3,420	100.0

**TABLE 4** 

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	0/0
DRY	1	50.0	42	13.6	510	18.5	553	18.0
WET	1	50.0	263	85.1	2,217	80.3	2,481	80.8
SNOW	0	0.0	0	0.0	0	0.0	0	0.0
ICE	0	0.0	3	1.0	19	0.7	22	0.7
MUD	0	0.0	1	0.3	14	0.5	15	0.5
UNKNOWN	0	-	1	-	348	-	349	-
TOTAL	2	100.0	310	100.0	3,108	100.0	3,420	100.0

TABLE 5

### 2010 MISSOURI DEER CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	1	50.0	48	15.5	445	14.3	494	14.4
U.S. HIGHWAY	0	0.0	71	22.9	789	25.4	860	25.2
STATE NUMBERED	0	0.0	80	25.8	861	27.7	941	27.5
SINGLE STATE LETTERED	1	50.0	37	11.9	329	10.6	367	10.7
DOUBLE STATE LETTERE	D 0	0.0	19	6.1	144	4.6	163	4.8
OUTER ROAD	0	0.0	1	0.3	14	0.5	15	0.4
COUNTY ROAD	0	0.0	22	7.1	160	5.2	182	5.3
CITY STREET	0	0.0	29	9.4	332	10.7	361	10.6
INTERSTATE LOOP	0	0.0	1	0.3	10	0.3	11	0.3
OTHER <sup>1</sup>	0	0.0	2	0.7	24	0.8	26	0.8
TOTAL	2	100.0	310	100.0	3,108	100.0	3,420	100.0

<sup>&</sup>lt;sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

TABLE 6

2010 MISSOURI DEER CRASHES

# HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY

					URBAN								RU	RURAL			
				PERSONAL		PROPERTY						PERSONAL		PROPERTY			
	FATAL		I %	INJURY	% DA	DAMAGE	%	TOTAL	r %	FATAL	AL %	INJURY	RY %	DAMAGE	GE %	TOTAL	% T
INTERSTATE	0	0.0	30	33.3	178		19.2	208	20.4	1	100.0	18	8.2	267	12.3	286	11.9
U.S. HIGHWAY	0	0.0	15	5 16.7	159		17.1	174	17.1	0	0.0	99	25.5	630	28.9	989	28.6
STATE NUMBERED	0	0.0	13	3 14.4	210		22.6	223	21.9	0	0.0	29	30.5	651	29.9	718	29.9
SINGLE STATE LETTERED	-	100.0	(4	2 2.2		27	2.9	30	2.9	0	0.0	35	15.9	302	13.9	337	14.0
DOUBLE STATE LETTERED	0	0.0	(4	2 2.2		19	2.1	21	2.1	0	0.0	17	7.7	125	5.7	142	5.9
OUTER ROAD	0	0.0	)	0.0 0.0		9	0.7	9	9.0	0	0.0	1	0.5	∞	0.4	6	0.4
COUNTY ROAD	0	0.0		1.1	6	25	2.7	26	2.6	0	0.0	21	9.6	135	6.2	156	6.5
CITY STREET	0	0.0	27	7 30.0	290		31.2	317	31.1	0	0.0	2	6.0	42	1.9	44	1.8
INTERSTATE LOOP	0	0.0	)	0.0 0.0		2	0.2	73	0.2	0	0.0	1	0.5	∞	0.4	6	0.4
OTHER 1	0	0.0	0	0.0		13	1.4	13	1.3	0	0.0	2	6.0	11	0.5	13	0.5
TOTAL	-	100.0	06	) 100.0	929		100.0	1,020	100.0	1	100.0	220	100.0	2,179	100.0	2,400	100.0

"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

TABLE 7

### MONTH OF YEAR

MONTH	FREQUENCY	PERCENT
JANUARY	214	6.3
FEBRUARY	156	4.6
MARCH	187	5.5
APRIL	153	4.5
MAY	221	6.5
JUNE	284	8.3
JULY	150	4.4
AUGUST	117	3.4
SEPTEMBER	195	5.7
OCTOBER	671	19.6
NOVEMBER	807	23.6
DECEMBER	265	7.8
TOTAL	3,420	100.0

TABLE 8

### 2010 MISSOURI DEER CRASHES

### DAY OF WEEK

DAY	FREQUENCY	PERCENT
SUNDAY	481	14.1
MONDAY	500	14.6
TUESDAY	513	15.0
WEDNESDAY	493	14.4
THURSDAY	431	12.6
FRIDAY	526	15.4
SATURDAY	476	13.9
TOTAL	3,420	100.0

TABLE 9

### **HOUR OF DAY**

HOUR	FREQUENCY	PERCENT
12:01A - 12:59A	178	5.2
01:00A - 01:59A	125	3.7
02:00A - 02:59A	103	3.0
03:00A - 03:59A	82	2.4
04:00A - 04:59A	106	3.1
05:00A - 05:59A	200	5.9
06:00A - 06:59A	284	8.3
07:00A - 07:59A	176	5.2
08:00A - 08:59A	84	2.5
09:00A - 09:59A	50	1.5
10:00A - 10:59A	36	1.1
11:00A - 11:59A	39	1.1
NOON - 12:59P	41	1.2
01:00P - 01:59P	28	0.8
02:00P - 02:59P	32	0.9
03:00P - 03:59P	28	0.9
	38	1.1
04:00P - 04:59P		
05:00P - 05:59P	207	6.1
06:00P - 06:59P	272	8.0
07:00P - 07:59P	322	9.4
08:00P - 08:59P	307	9.0
09:00P - 09:59P	297	8.7
10:00P - 10:59P	196	5.7
11:00P - MIDNIGHT	183	5.4
UNKNOWN	6	
TOTAL	3,420	100.0

TABLE 10

 ${\bf 2010\,MISSOURI\,DEER\,CRASHES^1}$  TYPE OF VEHICLE STRIKING DEER BY CRASH SEVERITY

	FATAL	0/0	PERSONAL INJURY	%	PROPERTY DAMAGE	0/0	TOTAL	%
AUTOMOBILE	1	50.0	161	52.3	1,679	54.1	1,841	53.9
SPORT UTILITY VEHICLE	0	0.0	32	10.4	588	18.9	620	18.2
LIMOUSINE	0	0.0	0	0.0	0	0.0	0	0.0
VAN	0	0.0	15	4.9	236	7.6	251	7.4
BUS	0	0.0	0	0.0	2	0.1	2	0.1
SCHOOL BUS	0	0.0	0	0.0	2	0.1	2	0.1
MOTORCYCLE	1	50.0	65	21.1	5	0.2	71	2.1
ALL TERRAIN VEHICLE	0	0.0	0	0.0	0	0.0	0	0.0
MOPED	0	0.0	0	0.0	0	0.0	0	0.0
MOTORHOME/CAMPER	0	0.0	0	0.0	1	0.0	1	0.0
OTHER TRANSPORT DEVICE	Ε 0	0.0	0	0.0	0	0.0	0	0.0
PICK-UP TRUCK	0	0.0	31	10.1	478	15.4	509	14.9
OTHER TRUCKS	0	0.0	4	1.3	115	3.7	119	3.5
UNKNOWN	0	-	0	-	2	-	2	-
TOTAL	2	100.0	308	100.0	3,108	100.0	3,418	100.0

<sup>&</sup>lt;sup>1</sup>This table includes only those vehicles striking a deer during the first harmful event in a crash.

TABLE 11

### VEHICLES STRIKING DEER IN 2010 MISSOURI CRASHES $^{\scriptscriptstyle 1}$

### DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
KNOWN DRIVER INVOLVED	2	100.0	308	100.0	3,105	99.9	3,415	99.9
UNKNOWN DRIVER INVOLVED	0	0.0	0	0.0	3	0.1	3	0.1
TOTAL	2	100.0	308	100.0	3,108	100.0	3,418	100.0

<sup>&</sup>lt;sup>1</sup>This table includes only vehicles striking deer during the first harmful event in a crash.

**TABLE 12** 

### DRIVERS OF VEHICLES STRIKING DEER IN 2010 MISSOURI CRASHES $^1$ SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	2	100.0	188	61.0	1,707	59.5	1,897	59.6
FEMALE	0	0.0	120	39.0	1,164	40.5	1,284	40.4
UNKNOWN	0	-	0	-	237	-	237	-
TOTAL	2	100.0	308	100.0	3,108	100.0	3,418	100.0

<sup>&</sup>lt;sup>1</sup>The table includes only drivers of vehicles striking deer during the first harmful event in a crash.

**TABLE 13** 

### DRIVERS OF VEHICLES STRIKING DEER IN 2010 MISSOURI CRASHES $^1$ AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
AVERAGE AGE OF DRIVER	52.0	-	40.2	-	40.7	-	40.7	-
15 - 20 YEARS	0	0.0	30	9.7	251	8.1	281	8.2
21 - 25 YEARS	0	0.0	45	14.6	357	11.5	402	11.8
26 - 30 YEARS	0	0.0	29	9.4	358	11.6	387	11.4
31 - 35 YEARS	0	0.0	24	7.8	294	9.5	318	9.3
36 - 40 YEARS	0	0.0	29	9.4	326	10.5	355	10.4
41 - 45 YEARS	0	0.0	39	12.7	314	10.1	353	10.4
46 - 50 YEARS	1	50.0	30	9.7	362	11.7	393	11.5
51 - 55 YEARS	0	0.0	26	8.4	267	8.6	293	8.6
56 - 60 YEARS	1	50.0	25	8.1	239	7.7	265	7.8
61 - 65 YEARS	0	0.0	12	3.9	152	4.9	164	4.8
66 YEARS AND OVER	0	0.0	19	6.2	179	5.8	198	5.8
UNKNOWN	0	-	0	-	9	-	9	-
TOTAL	2	100.0	308	100.0	3,108	100.0	3,418	100.0

<sup>&</sup>lt;sup>1</sup>This table includes only drivers of vehicles striking deer during the first harmful event in a crash.

**TABLE 14** 

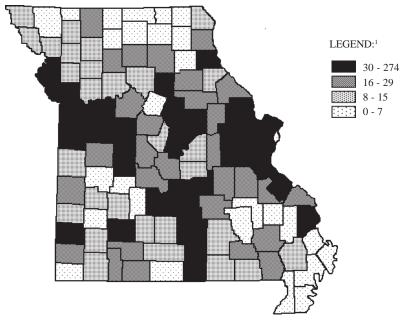
### DRIVERS OF VEHICLES STRIKING DEER IN 2010 MISSOURI CRASHES¹ DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MISSOURI								
LEARNER'S PERMIT	0	0.0	2	0.7	1	0.0	3	0.1
OPERATOR'S LICENSE	2	100.0	235	77.8	2,104	76.7	2,341	76.8
MOTORCYCLE	0	0.0	1	0.3	0	0.0	1	0.0
COMMERCIAL DRIVER'S LICENSE	0	0.0	23	7.6	196	7.1	219	7.2
SUB-TOTAL	2	100.0	261	86.4	2,301	83.8	2,564	84.1
OUT STATE								
LEARNER'S PERMIT	0	0.0	0	0.0	0	0.0	0	0.0
OPERATOR'S LICENSE	0	0.0	37	12.2	351	12.8	388	12.7
COMMERCIAL DRIVER'S LICENSE	0	0.0	2	0.7	84	3.1	86	2.8
SUB-TOTAL	0	0.0	39	12.9	435	15.9	474	15.5
UNLICENSED	0	0.0	2	0.7	8	0.3	10	0.3
UNKNOWN	0	-	6	-	364	-	370	-
TOTAL	2	100.0	308	100.0	3,108	100.0	3,418	100.0

<sup>&</sup>lt;sup>1</sup>This table includes only drivers of vehicles striking deer during the first harmful event in a crash.

**TABLE 15** 

### 2010 MISSOURI DEER CRASHES COUNTY QUARTILE ANALYSIS



 $<sup>^{\</sup>scriptscriptstyle 1}\text{LEGEND}$  CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	STLOUIS	274	8.0	22.0	BUCHANAN	44	1.3
2.0	JACKSON	236	6.9	23.0	LAFAYETTE	43	1.3
3.0	PLATTE	171	5.0	24.5	HOWELL	41	1.2
4.0	CLAY	165	4.0	24.5	MARION	41	1.2
5.0	JEFFERSON	163	4.8	26.0	RANDOLPH	32	0.9
6.0	ST CHARLES	123	3.6	27.5	STE GENEVIEVE	31	0.9
7.0	FRANKLIN	114	3.3	27.5	TEXAS	31	0.9
8.0	JOHNSON	90	2.6	29.0	BENTON	30	0.9
9.0	BOONE	77	2.3			Firs	t Quartile
10.0	CAPE GIRARDEAU	J 69	2.0				
11.0	LINCOLN	67	2.0			Second	l Quartile
12.5	CALLAWAY	62	1.8	30.0	TANEY	29	0.8
12.5	CASS	62	1.8	31.0	ST FRANCOIS	28	0.8
14.0	PETTIS	58	1.7	33.5	CAMDEN	27	0.8
15.0	WARREN	51	1.5	33.5	DENT	27	0.8
16.5	COLE	48	1.4	33.5	LEWIS	27	0.8
16.5	LACLEDE	48	1.4	33.5	MORGAN	27	0.8
18.0	PULASKI	47	1.4	36.5	NEWTON	26	0.8
19.5	GREENE	46	1.3	36.5	VERNON	26	0.8
19.5	PHELPS	46	1.3	39.0	CRAWFORD	25	0.7
21.0	JASPER	45	1.3	39.0	GASCONADE	25	0.7

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
39.0	WAYNE	25	0.7	79.5	CLINTON	10	0.3
41.0	WASHINGTON	24	0.7	79.5	MARIES	10	0.3
42.0	MACON	22	0.6	79.5	MONITEAU	10	0.3
43.0	MILLER	21	0.6	79.5	RIPLEY	10	0.3
46.0	BUTLER	20	0.6	79.5	SHANNON	10	0.3
46.0	LINN	20	0.6	84.5	ANDREW	9	0.3
46.0	MONTGOMERY	20	0.6	84.5	CHARITON	9	0.3
46.0	PIKE	20	0.6	84.5	DE KALB	9	0.3
46.0	SALINE	20	0.6	84.5	HOLT	9	0.3
50.0	HARRISON	19	0.6	87.0	CEDAR	8	0.2
50.0	HENRY	19	0.6			Thir	d Quartile
50.0	PERRY	19	0.6				
52.5	CHRISTIAN	18	0.5			Fourt	th Quartile
52.5	LIVINGSTON	18	0.5	89.5	DUNKLIN	7	0.2
55.0	CARTER	17	0.5	89.5	MADISON	7	0.2
55.0	COOPER	17	0.5	89.5	NODAWAY	7	0.2
55.0	STONE	17	0.5	89.5	SCOTT	7	0.2
57.5	AUDRAIN	16	0.5	92.0	SULLIVAN	6	0.2
57.5	MONROE	16	0.5	94.0	ST CLAIR	5	0.1
		Secon	nd Quartile	94.0	SHELBY	5	0.1
				94.0	WORTH	5	0.1
		Thir	d Quartile	97.5	MC DONALD	4	0.1
59.5	BATES	15	0.4	97.5	NEW MADRID	4	0.1
59.5	CALDWELL	15	0.4	97.5	SCOTLAND	4	0.1
62.0	ATCHISON	14	0.4	97.5	ST LOUIS CITY	4	0.1
62.0	LAWRENCE	14	0.4	103.0	ADAIR	3	0.1
62.0	STODDARD	14	0.4	103.0	DADE	3	0.1
65.5	CLARK	13	0.4	103.0	DALLAS	3	0.1
65.5	DOUGLAS	13	0.4	103.0	GRUNDY	3	0.1
65.5	OSAGE	13	0.4	103.0	HOWARD	3	0.1
65.5	RAY	13	0.4	103.0	MERCER	3	0.1
70.0	DAVIESS	12	0.4	103.0	OZARK	3	0.1
70.0	GENTRY	12	0.4	109.0	BOLLINGER	2	0.1
70.0	OREGON	12	0.4	109.0	HICKORY	2	0.1
70.0	POLK	12	0.4	109.0	KNOX	2	0.1
70.0	RALLS	12	0.4	109.0	PUTNAM	2	0.1
74.5	BARTON	11	0.3	109.0	SCHUYLER	2	0.1
74.5	CARROLL	11	0.3	112.5	MISSISSIPPI	1	0.0
74.5	WEBSTER	11	0.3	112.5	REYNOLDS	1	0.0
74.5	WRIGHT	11	0.3	114.5	IRON	0	0.0
79.5	BARRY	10	0.3	114.5	PEMISCOT	0	0.0

TABLE 16

### **CITY LISTING**

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	KANSAS CITY	257	20.0
2.0	LEE'S SUMMIT	52	4.1
3.0	WILDWOOD	46	3.6
4.0	CAPE GIRARDEAU	41	3.2
5.0	JEFFERSON CITY	29	2.3
6.0	PARKVILLE	27	2.1
7.5	JOPLIN	26	2.0
7.5	ST. JOSEPH	26	2.0
9.0	INDEPENDENCE	25	1.9
10.0	FULTON	22	1.7
11.0	LIBERTY	21	1.6
12.0	O'FALLON	20	1.6
13.0	SUNSET HILLS	19	1.5
14.5	COLUMBIA	16	1.2
14.5	WARRENSBURG	16	1.2
16.5	CHESTERFIELD	15	1.2
16.5	SPRINGFIELD	15	1.2
19.5	LAKEOZARK	14	1.1
19.5	OSAGE BEACH	14	1.1
19.5	ROLLA	14	1.1
19.5	ST. ROBERT	14	1.1
24.0	BLUE SPRINGS	13	1.0
24.0	FENTON	13	1.0
24.0	JACKSON	13	1.0
24.0	MANCHESTER	13	1.0
28.0	HANNIBAL	12	0.9
28.0	PEVELY	12	0.9
28.0	RIVERSIDE	12	0.9
32.0	BRANSON	10	0.8
32.0	MOBERLY	10	0.8
32.0	PECULIAR	10	0.8
32.0	WARRENTON	10	0.8
32.0	WAYNESVILLE	10	0.8
37.0	GRANDVIEW	9	0.7
37.0	LAKE ST. LOUIS	9	0.7
37.0	OZARK	9	0.7
37.0	TOWN AND COUNTRY	9	0.7
37.0	WASHINGTON	9	0.7
43.0	EUREKA	8	0.6
43.0	HARRISONVILLE	8	0.6
43.0	NORTH KANSAS CITY	8	0.6
43.0	RICHMOND	8	0.6
43.0	ST. PETERS	8	0.6
43.0	SEDALIA	8	0.6
43.0	WENTZVILLE	8	0.6
50.5	ARNOLD	7	0.5
50.5	BALLWIN	7	0.5
50.5	CREVE COEUR	7	0.5
50.5	PLATTECITY	7	0.5
50.5	REPUBLIC	7	0.5
50.5	ST. CHARLES	, 7	0.5
50.5	ST. CLAIR	7	0.5
50.5	UNION	7	0.5
56.5	BELTON	6	0.5
56.5	DES PERES	6	0.5
56.5	KIRKWOOD	6	0.5
56.5 56.5	TROY	6	0.5
30.3	INUI	O	0.3

 $^{1}$ Percentage is based on deer involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

### **TABLE 17**

### **2010 Deer Crashes**

